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1 A clean state 4D approach to network control and management

Albert Greenberg, Gisu Halmiysson, David A. Maltz, Andy Myers, Jennifer Rexford, Geoffrey Xie, Hong Yan, John Zhao, Hui Zhang

October 2005 **SIGCOMM Computer Communication Review**, Volume 35 Issue 5

Publisher: ACM

Full text available [PDF](#) (313.74 KB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 161, Downloads (Overall): 1159, Citation Count: 52

Today's data networks are surprisingly fragile and difficult to manage. We argue that the root of these problems lies in the complexity of the control and management planes--the software and protocols coordinating network elements--and particularly the ...

Key words: control, network management, robustness

2 Signalling analysis in integrated 4G networks

Huima Choudhry, Ivan Armaselino, Ivan Ganchev, Martin O'Droma, Nuno Rubinfeld

January 2008 **International Journal of Network Management**, Volume 18 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available [PDF](#) (517.12 KB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [index terms](#)

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Scarce radio resources and the ambition to increase the number of mobile customers with a guarantee of service are pushing mobile communication systems from homogeneous non-service convergent 2G and convergent-service 2.5G and 3G wireless systems to ...

3 A comparison of MANETs and WMNs: commercial feasibility of community wireless networks and

MANETs

Sarabzada Ali Mahmud, Shanbaz Khan, Shoaib Khan, Hamed Al-Bawazir

September 2006 **AccessNets '06: Proceedings of the 1st ACM workshop on Access networks**

Publisher: ACM

Full text available [PDF](#) (125.73 KB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [index terms](#)

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In the past a lot of effort has been put into resolving some of the major challenges of AdHoc networks especially the added ones brought up by the mobility of nodes and the absence of infrastructure in MANETs. Unlike MANETs, Wireless Mesh Networks (WMNs) ...

Key words: community wireless networks, mobile ad-hoc networks, wireless mesh networks

4 Applying a cryptographic namespace to applications

Mika Komu, Sasi Tarkoma, Jukka Kangasharju, Andrei Gurtov

September 2005 **DIN '05: Proceedings of the 1st ACM workshop on Dynamic interconnection of networks**

Publisher: ACM

Full text available [PDF](#) (107.27 KB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [index terms](#)

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The Host Identity Protocol (HIP) is a promising solution for dynamic network interconnection. HIP introduces a namespace based on cryptographically generated Host Identifiers. In this paper, two different API variants for accessing the namespace are ...

Key words: host identity protocol, personal mobility, referral, sockets API

5 Mobile networking in the Internet

Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available [PDF](#) (166.90 KB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 214, Downloads (Overall): 2510, Citation Count: 12

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for ...

6 [Towards an active network architecture](#)

[David L. Donenhouse](#), [David J. Wetherall](#)

October 2007 **SIGCOMM Computer Communication Review**, Volume 37 Issue 5

Publisher: ACM

Full text available [PDF](#) (143.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 267, Downloads (Overall): 791, Citation Count: 1

Active networks allow their users to inject customized programs into the nodes of the network. An extreme case, in which we are most interested, replaces packets with "capsules" -- program fragments that are executed at each network router/switch they ...

7 [Internet geolocation: Evasion and counterevasion](#)

[James A. Muir](#), [Paul G. Van Oorschot](#)

December 2009 **Computing Surveys (CSUR)**, Volume 42 Issue 1

Publisher: ACM [Request Permission](#)

Full text available [PDF](#) (187.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Internet geolocation technology aims to determine the physical (geographic) location of Internet users and devices. It is currently proposed or in use for a wide variety of purposes, including targeted marketing, restricting digital content sales to ...

Key words: Internet geolocation, Tor, adversarial environment, anonymizing network, evasion

8 [A virtualized link layer with support for indirection](#)

[Richard Gold](#), [Per Gunningberg](#), [Christian Tschudin](#)

August 2004 **FDNA '04: Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture**

Publisher: ACM [Request Permission](#)

Full text available [PDF](#) (111.14 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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The current Internet today hosts several extensions for indirection like Mobile IP, NAT, proxies, route selection and various network overlays. At the same time, user-controlled indirection mechanisms foreseen in the Internet architecture (e.g., loose ...

Key words: indirection, network architecture, underlay networks, virtualized link layer

9 [Proceedings of the 2000 ACM/IEEE conference on Supercomputing \(CDROM\)](#)

[Jef Dornelleux](#)

November 2000 **Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: IEEE Computer Society

Additional Information: [full citation](#), [index terms](#)

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